

Item ID:

D206-642-241

Accept

Setup Start



Stop

Revision ID: Item Name:

Replacement Skictube

Start Date:

Required Date: 18/01/2010 Req'd Qty: 1.00



Date:

.£ust Item ID:

Customer:

Reference:

Approvals:

Date/0-/-05 Tooling:

Date:

Start Run



Insp. Reject

Set Up/

Draw

Draw Plan Rev. Code

Accept

Reject Qty

Number

Stamp

BE 10/01/06

Sequence ID/ Work Center ID Operation Description

Run Hours

SPC (Y/N):

Number

Qty

Stop

Draw Nbr

Revision Nbr

Rev F D2650

Document Control

DOCUMENT CONTROL

Memo

0.00

0.00

Photocopy bluefile & type labels per PPP D206-642-241

110

Skidtubes

0.00

Skidtubes

Skidtubes

Memo

0.00

1-Deburr Fwd edge of tube 2- Remove ridge on inside of Fwdedge of tube as per Dwg D2650 3-Weld Fwd Cap as per Dwg D2650. Use aluminum rod.

Grind D2647 to fit as required. Pick: 'Qty Part Number.

DescriptionBatch A/R Aluminum Rod 1/1/2507 4-G

M112 860

120

· OC6- Inspect dimensions to drawing

Memo

0.00

Quality Control

W/O:		WORK ORDER CH		K			
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: D206-642-24 PAR #: ____ Fault Category: Skid-lubes

NCR: (es) No DQA:

Resolution: re-work

Disposition: ve-world

QA: N/C Closed: _

NCR: 5	4915	WC	ORK OR	DER NON-CONFORMANCE	(NCR)	<u> </u>	1	-
DATE	STEP	Description of NC		Corrective Action Section B		Verification	Approval	Approval
DATE	SIEF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
16/1/8	110	Durking Dicking of 55. Doubler the dick to it broke cuscu the hole ets he supliced (hoppend twice) R.C. Process.		-Fill holes (2) with well per astrong of A/R MILLSOT - Grind wells Flush inside + out - le Dill Der Dury: -le courte pink	MIOHM	Jolothy	De arrier	Iolalos
			POSUUL				bouye	10/01/08

Routing Print

January 7, 2010 10:53:39 AM

Routing Seq ID/ Description/Memo	Work Center ID	Tool Kit/Tape	Std Process ID/ Description	Yield %	Queue Time	Setup Time	Machine Time	Labor Time	Move Time	Var. Outpl/ Outpl. LT
Item ID: D206-642-241	<u>Item 1</u>	Name: Replacement S	kidtube							
Routing Type: Production				•						
100	DC			100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DOCUMENT CONTROL					0.0000	0.0000	0.0000	0.0000	0.0000	
Photocopy bluefile &	type labels per PPP D206-	642-241 CHG0	05							
		T	otal for Routing Seque	nce 100] :	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
110	Skidtubes			100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Skidtubes				<u></u>	0.0000	0.0000	0.0000	0.0000	0.0000	

¹⁻Deburr Fwd edge of tube

3-Weld Fwd Cap as per Dwg D2650. Use aluminum rod. Grind D2647 to fit as required.

Pick:

Qty || Part Number || Description || Batch

A/R::: Aluminum Rod::___

- 4-Grind weld flush to cap on top surface only.
- 5-Cut Aft end as per dwg 2650 from front of tube and Deburr
- 6-Remove inner indexing ridge on Aft end of skidtube as per Dwg D2650
- 7-Open holes for Aft end cap as per Dwg D2650 with #30 Drill Bit using DT8025.
- 8-Drill pilot holes using Dt 8167.
- 9-Locate DT8732 from inner Aft saddle hole & 3rd crossbolt hole. Insert D3286-1 doubler using DT8732 & D206-642-241-T1, then locating doubler off of 3/16" holes, cleeo DT8732 & doubler leaving DT8732 for added support.
- 10- Drill D3286-1 doubler rivet holes in tube using # 30 drill, spot drilling doubler at the same time.
- 11-Working from the center out, drill # 30 holes into D3286-1 doubler. Cleco each hole as it is being drilled. Verify angle of holes to accommodate rivet heads.
- 12-Remove 3/16" cleco's only and open GHW holes to Ø0.500" as per Dwg D2650
- 13-Remove D3286-1 doubers, identify orientation, deburr, then attach them to the workorder
- 14-Remove indexing edge using DT8741 as per Dwg D2650
- 15-C'sink GHW rivet holes as per Dwg D2650

h 10/1/1/

²⁻ Remove ridge on inside of Fwd edge of tube as per Dwg D2650

Routing Print
January 7, 2010 10:53:40 AM

130 Skidtube Skidtubes 1-Open crossbolt holes to Ø0.3125" 2-Drill pilot holes using DT8028-3, 1 3-Deburr tube and blow out chips fro 140 HandFin 150 QC 160 Skidtube Skidtubes 1-Open holes to finished size as per	hen open to Ø0.297" as pe	QC6 QC6-Inspect dimensions to drawing Total for Routing Seque er Dwg D2650. Open Aft cap ho Total for Routing Seque HandFinish1 Chemical Conversion Coat per QS1005 4.1 Total for Routing Seque QC3 QC3-Inspect Part	100.00% ole #6. ence 130 : 100.00% 100.00%	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000
Skidtubes 1-Open crossbolt holes to Ø0.3125" 2-Drill pilot holes using DT8028-3, 1 3-Deburr tube and blow out chips from the state of t	hen open to Ø0.297" as pe	dimensions to drawing Total for Routing Sequence Dwg D2650. Open Aft cap had Finish 1 Chemical Conversion Coat per QS1005 4.1 Total for Routing Sequence QC3	ence 120 : 100.00% ble #6. ence 130 : 100.00% 100.00%	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000
Skidtubes 1-Open crossbolt holes to Ø0.3125" 2-Drill pilot holes using DT8028-3, 1 3-Deburr tube and blow out chips from the state of t	hen open to Ø0.297" as pe	drawing Total for Routing Seque er Dwg D2650. Open Aft cap ho Total for Routing Seque HandFinish1 Chemical Conversion Coat per QS1005 4.1 Total for Routing Seque QC3	100.00% ole #6. ence 130 : 100.00% 100.00%	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000
Skidtubes 1-Open crossbolt holes to Ø0.3125" 2-Drill pilot holes using DT8028-3, 1 3-Deburr tube and blow out chips from the state of t	hen open to Ø0.297" as pe	Total for Routing Sequential Chemical Conversion Coat per QS1005 4.1 Total for Routing Sequence Total For Routing Sequence QC3	100.00% ole #6. ence 130 : 100.00% 100.00%	0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0 / 1 / 1 / 1 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000
Skidtubes 1-Open crossbolt holes to Ø0.3125" 2-Drill pilot holes using DT8028-3, 1 3-Deburr tube and blow out chips from the state of t	hen open to Ø0.297" as pe	Total for Routing Sequential HandFinish1 Chemical Conversion Coat per QS1005 4.1 Total for Routing Sequence	ole #6. ence 130 : 100.00% 100.00%	0.0000 0.0000 0.0000 0.0000	0.0000 (H) (0.0000 0.0000 0.0000	0.0000 0 / 1 / 1 / 1 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000	0.000 0 0.0000
1-Open crossbolt holes to Ø0.3125" 2-Drill pilot holes using DT8028-3, to 3-Deburr tube and blow out chips from 140 HandFin 150 QC 160 Skidtubes	m inside the tube	Total for Routing Sequential HandFinish1 Chemical Conversion Coat per QS1005 4.1 Total for Routing Sequence	ence [130] : 100.00% 100.00%	0.0000 0.0000 0.0000	0.0000 0.0000 0.0000	0.0000 0.0000 0.0000	0.0000 0.0000 0.0000	0.0000 0.0000 0.0000	0.0000
2-Drill pilot holes using DT8028-3, 1 3-Deburr tube and blow out chips from 140 HandFin 150 QC 160 Skidtubes	m inside the tube	Total for Routing Sequential HandFinish1 Chemical Conversion Coat per QS1005 4.1 Total for Routing Sequence	ence [130] : 100.00% 100.00%	0.0000 0.0000 0.0000	0.0000 0.0000 0.0000	0.0000 0.0000 0.0000	0.0000 0.0000	0.0000	0.0000
3-Deburr tube and blow out chips from 140 HandFin 150 QC Skidtubes	m inside the tube	Total for Routing Sequential HandFinish1 Chemical Conversion Coat per QS1005 4.1 Total for Routing Sequence	ence [130] : 100.00% 100.00%	0.0000 0.0000 0.0000	0.0000 0.0000 0.0000	0.0000 0.0000 0.0000	0.0000 0.0000	0.0000	0.0000
140 HandFin 150 QC 160 Skidtube Skidtubes	- -	HandFinish1 Chemical Conversion Coat per QS1005 4.1 Total for Routing Seque	100.00% 100.00% ence 140 :	0.0000 0.0000 0.0000	0.0000 0.0000	0.0000 0.0000 (0/)	0.0000 0.0000	0.0000	0.0000
150 QC 160 Skidtubes	ish	HandFinish1 Chemical Conversion Coat per QS1005 4.1 Total for Routing Seque	100.00% 100.00% ence 140 :	0.0000 0.0000 0.0000	0.0000 0.0000	0.0000 0.0000 (0/)	0.0000 0.0000	0.0000	0.0000
150 QC 160 Skidtube Skidtubes	ish	Chemical Conversion Coat per QS1005 4.1 Total for Routing Seque	100.00% ence 140 :	0.0000	0.0000	6.0000 H 10/1	0.0000	0.0000	
160 Skidtubes Skidtubes	· · · - · · · · · · · · · · · · ·	Conversion Coat per QS1005 4.1 Total for Routing Seque QC3	ence 140] :	0.0000		h 10/1	117		
160 Skidtubes Skidtubes	· · · - · · · · ·	per QS1005 4.1 Total for Routing Seque	'		0.0000		117		
160 Skidtubes Skidtubes	··	QC3	'		0.0000	0.0000	0.0000	0.0000	
160 Skidtubes Skidtubes		•	100.00%			0.000	0.0000	0.0000	0.0000
Skidtubes		OC3- Inchest Bort	10010070	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Skidtubes		Finish	100.00%	0.0000	0.0000	BE 10/	0.0000	0.0000	
Skidtubes		Total for Routing Seque	ence [150] :	0.0000	0.0000	0.0000	6.0000	0.0000	0.0000
	s ··	Y	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1-Open holes to finished size as per				0.0000	0.0000	0.0000	0.0000	0.0000	
	Owg D2650, D2650-3 Dril	lling Detail (without cutting flu	id)			· · · · · ·			
2-C'sink crossbolt spacer holes as pe	Dwg D2650(without cutt	ting fluid)			_		17		
3-Deburr and blow out all chips from	inside the tube			P	(6)	/ (/ (
		Total for Routing Seque	ence 160 :	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
170 QC		QC6	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
		QC6- Inspect dimensions to drawing	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	
		٤			~11/0~ -		0.0000		

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Skidtubes 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	Routing Seq ID/ Description/Memo	Work Center ID	Tool Kit/Tape	Std Process ID/ Description	Yield %	Queue Time	Setup Time	Machine Time	Labor Time	Move Time	Var. Outpl/ Outpl. LT
1-Locate, install and rivet doublers as per Dvg D2650. Micro-shave rivets as required	180	Skidtubes			100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2-Bond D2654-3 web in place as per QSI 015. Ensure holes line up.Allow 12 Hrs. cure time before cutting Start Date: \(\frac{1}{2} \frac{1}{3} \frac{1}{1} \text{Time: \(\frac{1}{2} \frac{1}{3} \frac{1}{3} \frac{1}{1} \text{Time: \(\frac{1}{2} \frac{1}{3} \frac{1}{3} \frac{1}{1} \text{Time: \(\frac{1}{2} \frac{1}{3} \frac{1}{3	Skidtubes					0.0000	0.0000	0.0000	0.0000	0.0000	
Pick: Qiy. Pan Number Description Batch Art Description Batch Qiy. Pan Number Description Description Qiy. Pan Number Description Qiy. Pan N	1-Locate, install and riv	et doublers as per Dwg D	2650. Micro-shave i	rivets as required							
April Common Co	Start Date: 10/1/17	<u> -</u> !::Time::::: <u>~、3~</u> [:	1	allow 12 Hrs. cure time be	efore cutting		y 10/	1/12			
100.00% 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	QtyPart Number[!De: A/RL!!!Sikaflex-291[]	<u>/4112395</u> nn									
CS- Inspect part 100.00% 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000				Total for Routing Seque	ence [180] :	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Completeness to sport Work Completeness t	190	QC		QC5	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total for Routing Sequence 190 : 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000				completeness to	100.00%			0.0000	0.0000	0.0000	
Skidtubes 1-remove alodine from around hole and prepare for welding 3-F 10/or 13 2-Prep per QSI 005 and Insert D2649 crossbolt spacers. Weld as per QSI 004 and Dwg D2650. Remember to back drill each hole to 0.25" before welding the other side. Use aluminum rod. Pick: Qty. Part Number Description Batch A/R Aluminum Rod 1/0-0/4 4-Using DT8733, insert (2) D3286-3 spacers as per QSI 004 and Dwg D2650. Remember to back drill each hole to 00.402" before welding other side. Use SS rod as required. A/R SS Rod 10-0/8 5-Counterbore 5/16" x 0.750" deep except 7th hole from Aft end as per Dwg D2650. Deburr 100.00% 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000				Total for Routing Seque	ence [190] :			0.0000	0.0000	0.0000	0.0000
2-Prep per QSI 005 and Insert D2649 crossbolt spacers. Weld as per QSI 004 and Dwg D2650. Remember to back drill each hole to 0.25" before welding the other side. Use aluminum rod. Pick: Qty Part Number Descriptiont Batch A/R Aluminum Rod	200	Skidtubes			100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2-Prep per QSI 005 and Insert D2649 crossbolt spacers. Weld as per QSI 004 and Dwg D2650. Remember to back drill each hole to 0.25" before welding the other side. Use aluminum rod. Pick: QIV Part Number Description Batch A/R Aluminum Rod M 10 -1 - 14 4-Using DT8733, insert (2) D3286-3 spacers as per QSI 004 and Dwg D2650. Remember to back drill each hole to 00.402" before welding other side. Use SS rod as required. A/R SS Rod M M D - 1 - 2 5-Counterbore 5/16" x 0.750" deep except 7th hole from Aft end as per Dwg D2650. Deburr Total for Routing Sequence 200 : 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 210 HandFinishing 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 HandFinishing 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 Install D2680-041 Nut Plate as per Dwg D2650 M 0/1 20				. //		0.0000	0.0000	0.0000	0.0000	0.0000	
side. Use aluminum rod. Pick: Qty Part Number Description Batch A/R Aluminum Rod 10 -1 - 14 4-Using DT8733, insert (2) D3286-3 spacers as per QSI 004 and Dwg D2650. Remember to back drill each hole to 00.402" before welding other side. Use SS rod as required. A/R SS Rod No NE BE 10 - 01 - 18 5-Counterbore 5/16" x 0.750" deep except 7th hole from Aft end as per Dwg D2650. Deburr	1-remove alodine from a	round hole and prepare for	or welding	BE 10/4/13							
4-Using DT8733, insert (2) D3286-3 spacers as per QSI 004 and Dwg D2650. Remember to back drill each hole to Ø0.402" before welding other side. Use SS rod as required. A/R: SS Rod // **DVE BE 10-01-18 5-Counterbore 5/16" x 0.750" deep except 7th hole from Aft end as per Dwg D2650. Deburr // **DVE D10-000	side. Use aluminum rod Pick: Qty Part Number Des	l. cription(Batch		,		ack drill each h	ole to 0.25" bef	fore welding the	other		
4-Using DT8733, insert (2) D3286-3 spacers as per QSI 004 and Dwg D2650. Remember to back drill each hole to Ø0.402" before welding other side. Use SS rod as required. A/R: SS Rod // **DVE BE 10-01-18 5-Counterbore 5/16" x 0.750" deep except 7th hole from Aft end as per Dwg D2650. Deburr // **DVE D10-000			A www	10 -1-14	•						,
as required. A/R: SS Rod			•	,							
A/R: SS Rod None BE 10-01-8 5-Counterbore 5/16" x 0.750" deep except 7th hole from Aft end as per Dwg D2650. Deburr Total for Routing Sequence 200 : 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 HandFinish 100.00% 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 HandFinishing 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 Install D2680-041 Nut Plate as per Dwg D2650		(2) D3286-3 spacers as p	er QSI 004 and Dwg	D2650. Remember to ba	ick drill each hol	e to Ø0.402" be	fore welding of	ther side. Use S	S rod		
Total for Routing Sequence 200 : 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.	A/R: SS Rod //c	NE B	E 10-	01-18	M.	Im.	10-1	- A C			
210 HandFinish 100.00% 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	5-Counterbore 5/16" x 0	.750" deep except 7th ho	le from Aft end as pe	r Dwg D2650. Deburr	~ M						
HandFinishing Install D2680-041 Nut Plate as per Dwg D2650 U □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □				Total for Routing Seque	ence 200 :	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Install D2680-041 Nut Plate as per Dwg D2650 $\mu = 10/10$	210	HandFinish			100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	HandFinishing			a		0.0000	0.0000	0.0000	0.0000	0.0000	
Total for Routing Sequence [210]: 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	Install D2680-041 Nut F	Plate as per Dwg D2650		11 10/1/20	2						
				Total for Routing Seque	ence [210] :	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Routing Print
January 7, 2010 10:53:45 AM

Routing Seq ID/ Description/Memo	Work Center ID	Tool Kit/Tape	Std Process ID/ Description	Yield %	Queue Time	Setup Time	Machine Time	Labor Time	Move Time	Var. Outpl/ Outpl. LT
220	QC		QC9	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
			QC9- Inspect visual	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	
			per QSI004- Fusion Welds	Q	2c2-PD1	00130		acio-	Scol-1/2	′ပ
			Total for Routing Sequen	ice [220] :	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
230	QC		QC5	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
			QC5- Inspect part	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	
•			completeness to step on W/O		(Scolor	20			
			Total for Routing Sequer	ice [230] :	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
240	HandFinish	•	HandFinish2	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	W 16-01	·2 & UC	Pressure Wash per QSI005 4.3	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	
			Total for Routing Sequer	ice [240] :	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
250	Powdercoat		Powdercoat1	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
			White	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	
40117	- .		Gloss(Ref:4.3.5.1) per QSI005 4.3-							
M1136	1 0		Alum							
OVEN TEMPERATUR	1-45pm E: 320°F 2-15pm	=> 9U	10-01-	-26	Q C)	•			
	1.		Total for Routing Sequen	ice [250] :	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
260	QC		QC3	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
			QC3- Inspect Part	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	
		こつ	Finish M	אטן י	11-27	(/.X).)			
		- /	Total for Routing Sequen	ع ع ح و	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Routing Print

January 7, 2010 10:53:46 AM

Routing Seq ID/ Description/Memo	Work Center ID	Tool Kit/Tape	Std Process ID/ Description	Yield %	Queue Time	Setup Time	Machine Time	Labor Time	Move Time	Var. Outpl/ Outpl. LT
270	HandFinish		·	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HandFinishing					0.0000	0.000@	0.0000	0.0000	0.0000	0.000
1- Install inserts & wear A/R: IiiSikaflex-291ii Sikaflex expire date:U	pads as her dwg p2932, U	Jse drop of Sikaflex	inside insert holes befo	re installing wear	rpad/wearplate.					
2-Install D2651-3 O-Rin	ngs on D2651-1 plugs wit	h Petroleum Jelly and	install plugs as per Dwg	g D2650 (D2650	-3 detail). Clear	n excess adhesi	ve.	,	, ,	
	Screw as per DEO 9153.							W	01/24	3
4 -Install D2646 Aft Cap A/RUDSikaflex-291U Sikaflex expire date:U	and stall with Silaflex	Clean excess adhesive	,		/	/ 1	m-L	• 1	· · · · · · · · · · · · · · · · · · ·	
5 -Wing Walk as per Dw A/R Batch: Batch:	vg D2650-3 and QSI 005	4.4								
•	• –	Т	otal for Routing Sequ	ence [270] :	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
300	QC		QC5	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
			QC5- Inspect part completeness to step on W/O	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	
		Т	otal for Routing Segu	ence 300 :	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
310	Packaging	•		100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Packaging	0 0				0.0000	0.0000	0.0000	0.0000	0.0000	
Identify and pack for shi Location:PPP Rev:	ipping as per PPP D206-6 - 	64-241								
		Т	otal for Routing Sequ	ence 310] :	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
320	QC		QC21	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	•		QC21- Final Inspection - Work Order Release	100.00%	0.0000	0.0000	0.0000	0.0000	0.0000	
		Т	otal for Routing Sequ	ence [320] :	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
				- :						



Item ID:

D206-642-241

Replacement Skidtube

Accept



Setup Start



Stop

Start Date:

Revision ID:

Item Name:

05/01/2010

Start Oty: 1.00 Req Qty: 1.00

Cust 2:m ID:

Cus amer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Stop

Start



Required Date: 18/01/2010

Date:

SPC (Y/N):

Date:



Sequence ID/ Work Center ID

130

Skidtubes Skidtubes

Operation Description

Skidtubes

Set Up/ **Run Hours** 0.00

Draw Number

Plan Draw Rev. Code

Accept Qty

Reject **Qty**

Run

Reject Insp. Number Stamp

W 10/1/11

Memo

1-Open crossbolt holes to Ø0.3125" : 2-Drill pilot holes using DT8028-3, then

blow out chips from inside the tube

Memo

open to Ø0.297" as per Dwg D2650. Open Aft cap hole #6.□3-Deburr tube and

0.00

140

HandFinish

Hand Finishing

Chemical Conversion Coat per QSI005 4.1

0.00

0.00

150

Quality Control

QC3- Inspect Part Finish

Memo

0.00

0.00

(1) BE 10/01/11

W/O:		WORK ORDER CHANGES								
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
e j				.•	i					
			-							
							j			

Part No:		PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:	
1	Resolution:		Disposition:	QA: N/C Closed	l :	Date:	

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B	3	Verification	Annroyal	Approval QC Inspector			
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng				
					:						



Required Date: 18/01/2010

Item ID: Revision ID: D206-642-241

Replacement Skidtube

Accept



Setup Start



Stop

Item Name: **Start Date:**

05/01/2010

Start Oty: 1.00 Req'd Qty ... 00



Cust Item Ji Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Start



Date:

SPC (Y/N):

Date: _ ____



Sequence ID/ Work Center ID

160

Skidtubes Skidtubes

Operation Description

Skidtubes

Set Up/ **Run Hours** Draw Number Draw Rev.

Plan Accept Qty Code

Reject Oty

Run

Reject Insp. Stamp Number

Memo

0.00

0.00

1-Open holes to finished size as per Dwg D2650, D2650-3 Drilling Detail (without cutting fluid) ...2-C'sink crossbolt spacer holes as per Dwg

D2650(without cutting fluid) 3-Deburr and blow out all chips from inside the

tube

10/1/12

170



Quality Control

QC6- Inspect dimensions to drawing

0.00

2) S 10/01/12

0.00

Memo

Skidtubes

180



Skidtubes

0.00

Memo

0.00

1-Locate, install and rivet doublers as per Dwg D2650. Micro-shave rivets as required 2-Bond D2654-3 web in place as per QSI 015. Ensure holes line

up. Allow 12 Hrs. cure time before cutting Start
Date: 19/1/12 Time: 2:39 Finish Date: 10/113 Time 10: 10 Am

B# M 11395 Exe, 10/2/30

H 10/1/12

W/O:			W	ORK ORDER CHAN	GES		· · · · · · · · · · · · · · · · · · ·		•	,
DATE	STEP	PRO	OCEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
-										
						i i				
Part No	:	PAR #:	Fault Cat	egory:	NCR:	Yes I	No DQA	\ :	Date:	<u> </u>
	Re	esolution:	Dispositi	on:	QA: i	VC Clo	sed:		Date: _	
NCR:			WORK ORI	DER NON-CONFORM	MANCE	(NCR)			
DATE S	STEP	Description of NC			ection B		Verific	ation	Approval	Approval
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	n	Sign & Date	Section		Chief Eng	QC Inspector
ł										
				•						

Work Order ID 54915

Page 4

January 5, 2010 9:45:05 AM

Required Date: 18/01/2010

Item ID:

D206-642-241

Accept



Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

05/01/2010

Start Qty: 1.00 Req'd Qty: 1.00



Cust Item ID:

Customer:



Reference:

Approvals:

Process Plan:

Date:

Date:

Tooling:

SPC (Y/N):

Date:

Run

Stop

Start



Sequence ID/

Work Center ID

190

QC

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Set Up/ **Run Hours**

Draw Number Draw Rev.

Date:

Plan Code

Reject Accept Qty Qty

Reject

Insp. Number Stamp

Memo

200

Skidtubes Skidtubes

Skidtubes

Memo

0.00

0.00

1-remove alodine from around hole and prepare for welding [12-Insert D2649 crossbolt spacers. Weld as per QSI 004 and Dwg D2650. Remember to back drill each hole to 0.25" before welding the other side. Use aluminum rod. @Pick: @QtyPart NumberDescriptionBat

210

HandFinish

Hand Finishing

HandFinishing

Memo

0.00

0.00

Install D2680-041 Nut Plate as per Dwg D2650

DE 19/01/13

W 10/1/20

W/O:	1		WO	RK ORDER CHANGI	ES				•	•
DATE	STEP	PRO	OCEDURE CHAN	IGE	,	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		-		·		-				
						į.				
Part No	:	PAR #:	Fault Categ	jory:	NCR	: Yes	No DQ	A :	_ Date: _	···
	Re	esolution:	Disposition	ı:	_ QA:	N/C CI	osed:		Date: _	
NCR:			WORK ORDE	R NON-CONFORMA	NCE	(NCR)			
DATE	STEP	Description of NC		Corrective Action Section	on B		Verific	cation	Approval	Approval
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date		ion C	Chief Eng	QC Inspector
	T.									
		•								

Work Order ID 54915

Page 5

January 5, 2010 9:45:05 AM

Item ID:

D206-642-241

Accept



Setup Start



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

05/01/2010 Start Qty: 1.00

Req'd Qty: 1.00 Required Date: 18/01/2010



Cust Item ID:

Customer:



Reference:

Approvals:

Process Plan: Date:

Tooling:

Date: _____

Run

Start

QC:

Date: ______

SPC (Y/N):

Date:



Sequence ID/ **Work Center ID**

220

Quality Control

Operation Description

QC9- Inspect visual per QSI004- Fusion Welds

Set Up/ **Run Hours**

Draw Number 0.00 QC9- PD 10.01.20

Draw Rev.

Plan Accept Code Qty

Reject Qty

Reject Number Stamp

230



Quality Control

QC5- Inspect part completeness to step on W/O

2) 5 10/01/20

0.00 QC10 - Sular/20



240

HandFinish Hand Finishing Pressure Wash per QSI005 4.3

Memo

Memo

Memo

-> JU 10/61/26



0.00

W/O:		WORK ORDER CHANGES									
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
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-			·				,				
							,				

Part No: ______ PAR #: _____ Fault Category: ______ NCR: Yes No DQA: ____ Date: _____

NCR:			VORK ORI	DER NON-CONFORMANC	E (NCR)			
	,	Description of NC		Corrective Action Section B		Verification	Annroyal	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	QC Inspector
].

quired Date: 18/01/2010

Item ID:

D206-642-241

Accept



Setup Start



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

05/01/2010

Start Oty: 1.00

Req'd Qty: 1.00

Cust Item ID:

Customer:

Draw

Number

Run

Paference:

Approvals:

Process Plan:

Date:

Tooling:

0.00

0.00

Start

Stop



Date:

SPC (Y/N):

Set Up/

Run Hours

Date:

Draw

Rev.

=> M 10-01-201

Plan

Code

Qty

Accept

Reject

Oty



Insp.

Stamp

Reject

Number

Sequence ID/ Work Center ID

250

Powdercoat

Powder Coating

Operation Description

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

1113170

START TIME:

1 (1: 450 DOVEN TEMPERATURE:

(12) SOUTHINISH TIME

260

QC Quality Control OC3- Inspect Part Finish

Memo

Memo

0.00

=7 m-k worl 27

270

HandFinish Hand Finishing HandFinishing

0.00

0.00

1- Install inserts & wearpads as per dwg D2922. Use a drop of Sikaflex inside

insert holes before instaling wearpad/wearplate. ARSikaflex291 Sikaflex expire date: 2-Install D26513 O-Rings on D2651-1 plugs with Petroleum

=7 m / p 10/01/28 (1X)

W/O:			WO	RK ORDER CHANGE	S			•	1
DATE	STEP	PRO	CEDURE CHAN	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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<u> </u>					İ				
Part No):	PAR #:	Fault Cate	gory:	NCR: Yes	No DC	A:	Date:	
	R	esolution:	Disposition	n:	QA: N/C	Closed:		Date: _	
NCR:		· •	WORK ORDE	ER NON-CONFORMAI	NCE (NC	R)			
DATE	STEP	Description of NC	Initial	Corrective Action Section Action Description	Sign	0 1	cation	Approval	Approval
		Section A	Chief Eng	Chief Eng	Dat		tion C	Chief Eng	QC Inspector
				* : *					
								i i	



Item ID:

D206-642-241

Accept



Setup Start



Revision ID: Item Name:

Replacement Skidtube

Start Date:

Required Date: 18/01/2010

05/01/2010 Start Qty: 1.00 Reg'd Qty: 1.00



Cust Item ID:

Customer:

ħ,

Qty

Run

Reference.

Process Plan:

Date:

Tooling:

Date:

Start Stop

Approvals:

Date:

SPC (Y/N):

Date:

Sequence ID/ Work Center ID Operation Description

HandFinishing

Set Up/ **Run Hours** Draw Number

Plan Draw Rev. Code Accept Qty

Reject Reject

Insp. Number Stamp

280

Hand Finishing

HandFinish

0.00

0.00

1-Install D2646 Aft Cap and seal with Sikaflex. Clean excess achesive

NIII 23 U.S. Explore expire date: 10/0 8

Wing Walk as per Dwg D2650-3 and QSI 005 4.4 Batch:

=7 m-h 10/01/28/x

290

OC3- Inspect Part Finish

Memo

0.00

Quality Control

300

Quality Control

0.00

0.00

QC5- Inspect part completeness to step on W/O

Memo

W/O:			W	ORK ORDER CHANG	ES				•	- No.
DATE	STEP	PRO	OCEDURE CH	ANGE	Ву		Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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]		,	
Part No	:	PAR #:	Fault Cat	egory:	NCR: Y	es N	o DQA :	:	Date: _	
	Re	esolution:	Dispositi	on:	_ QA: N/0	Clos	sed:		Date: _	·
NCR:		,	WORK ORE	DER NON-CONFORMA	NCE (N	CR)				
DATE	CTED	Description of NC		on B		Verifica	ation	Approval	Approval	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng		gn & ate	Section		Chief Eng	QC Inspector
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Required Dat 18/01/2010

Item ID:

D206-642-241

Accept

Setup Start



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

:05/01/2010

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

34

Stop

Reference:

Date:

Tooling:

Date:

Start

Run



Approvals:

Process Plan:

SPC (Y/N):

Date:

Stop

Sequence ID/ **Work Center ID**

310

Packaging

Packaging

Operation Description

Packaging

Set Up/ **Run Hours**

0.00

0.00

Draw Number Rev.

Code

Accept Qty

Reject Qty

Reject Insp. Number Stamp

Memo

Memo

Identify and pack for shipping as per PPP D206664241 IF APPLICABLE Location:

Date: ____

320

QC21- Final Inspection - Work Order Release

0.00

QC

Quality Control

0.00

10/02/04 ff) Mr 10-2-4

W/O:		WORK ORDER CH	IANGES				•	•
DATE	STEP	PROCEDURE CHANGE	В	у	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No:	PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
Resolution:		Disposition:	QA: N/C Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B	Verification	Approval	Approval				
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector			
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January 7, 2010 10:59:23 AM

Criteria: Item ID: d206-642-241, All Product Families, All Item Types, All Categories, All Buyers/Planners, Effective Start Date: 1/07/10.

Single Level Bill of Material Standard Report

1/07/10

Parent Item ID Item Name	D206-642-241 Replacement Skidtube	Unit Measure Each		Replacement	Item ID	
Item ID	Item Name	Replacement Item ID Q	ty/ Assy	Unit Measure	Eff. Start Date	Ett Stop Baye
BOM Type Pi	roduction					131 N
▶ D3286-1	Doubler		2.0000	Each	12/05/09	B47692 2 MD/
> D2647	Cap		1.0000	Each	12/05/09	B 43246 D MO/1
>D2600-1-160 2620	Extrusion Round 3" 206		1.0000	Each	1/07/10	7 7 1 1 1 1 1 1 1 1 1 1
D2654-3	Web		1.0000	Each	12/05/09	B48679 D MOI
CR3212-4-04	Cherry Rivet		52.0000	Each	1/01/08	B111359 SD 110/1
D 2649	Cross Bolt Spacer		18.0000	Each	12/05/09	B47112 86 10/0
D3286-3	Spacer		2.0000	Each	12/05/09	B46643 @ BE19
D2680-041	Nut Plate		1.0000	Each	12/05/09	1354366 10/1/20-1-11
CR3212-4-03	Cherry Rivet		2.0000	Each	1/01/08	M 110139.2 MO/11
CCR264SS3-3	Cherry Rivet	•	2.0000	Each	1/01/08	M113539 2 M6/1/2
➤D2646	Aft Cap		1.0000	Each		348109 (IX) m-1, 10/31
>D2651-1	Plug	. .	18.0000	Each	12/05/09	343990 (BX)m-1210/01/
AN960JD416	Washer NA S11 49 D04	630	1.0000	Each	1/01/08	M/13288 (x) m/2 10/0
D 2651-3	O-Ring		18.0000	Each	12/05/09	
MS27039-1-08	Screw M110467	(1)	46.0000	Each	1/01/08	MIIOSS RAW Mill 10/0
A LS4-1032-130	Insert		44.0000	Each	1/01/08	M109061 (DM 1010)
MS27039-4-06	Screw		1.0000	Each	1/01/08	Milosil Hydm III
➤AN960JD10L	Washer		46.0000	Each	1/01/08	Miloges Libran I 1
D3537-1	Wearpad		4.0000	Each	V 1/07/10	25/670

Single Level B	ill of Material Standard Report	As of:	1/07/10				-	
Parent Item II Item Name	D D206-642-241 Replacement Skidtube		Unit Measure Eac	ch	Replacement	Item ID	<u>-</u>	· · · · · · · · · · · · · · · · · · ·
Item ID	Item Name	R	eplacement Item ID	Qty/ Assy	Unit Measure	Eff. Start Date	Eff. Stop Date	
D3537-3	Wearpad			1.0000	Each	× 1/07/10 i	B35697 (2 M/2 10/07/28
D3535-13	Wearshoe			1.0000	Each	1/07/10	3387501	Day Lulada
D3536-13	Gasket			1.0000	Each	1/0//10	ころん ルーロン) /
D3535-21	Wearshoe		·	1.0000	Each			
D3536-21	Gasket			1.0000	Each	1/07/10	B47010 (1)	M/LW/01/28 N/LW/01/28
D3535-33	Wearshoe			1.0000	Each	1/07/10	351(11)(3)	N/2, W/01/28
D3536-33	Gasket			1.0000	Each	1/07/10	351500	m/L 10/01/28 m/L 10/01/28
							31543/12	m. 1. 1201/28

						,
QTY -1	QTY	QTY -5	QTY -7	PART NUMBER	DESCRIPTION	l
X		Ť		D2650-1	SKIDTUBE ASSEMBLY	
	X			D2650-3	SKEDTUBE ASSEMBLY	
		X		D2650-5	SKIDTUBE ASSEMBLY	
Ť			Х	D2650-7	SKEDTUBE ASSEMBLY	
1	1	1	1	D2600-1-160	EXTRUSION	
1				D2654-1	WES	
	1			D2654-3	WE8 %	
		1		D2654-5	WE8	
			1	D2654-7	WEB	
1	1	1	1	D2546	AFT CAP	
1	1	1	1	D2647	CAP	
17	18	19	23	D2649	CROSS BOLT SPACER	⊬F/
16	18	14	22	D2651-1	PLUG	<u> </u>
16	18	14	22	D2651-3	O-RING	
1	1	1	1	D2683-041	NUT PLATE	
2	2			D3286-1	DOUBLER	1
2	2			D3286-3	STUD	
42	44	54	60	ALS7-1032-130	INSERT (or AKS4-1032-130, ALS4-1032-130, #LS7-1032-139)	
2	2	2	2	AN960JD10L	WASHER	
2	2	2	2	CCR264SS3-3	RIVET	
2	2	2	2	CR3212-4-03	RIVET	
2	2	2	2	MS27039-1-08	SCREW	
1	1	1	1	MS27039-4-06	SCREW	
1	1	1	1	AN960JD416	WASHER	

OTES:

FINISH: -CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

-POWDER COAT WHITE (4.3.5.1) PER DART QSI 005 4.3

CR3212-4-04

-BLACK ANTI-SKID PAINT AS INDICATED TO 0.5 ABOVE LOCATION RIDGE PER **DART QSI 005 4.4**

TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED

UNITS: INCHES UNLESS OTHERWISE NOTED

BREAK SHARP EDGES: 0.005 TO 0.010 MAX

IDENTIFICATION: NONE

WEIGHT: N/A

WELD PER DART QSI 904

DAMAGE TOLERANCE ON FWD BEND:

THERE SHOULD BE NO VISIBLE WRINKLES IN THE BEND FROM THE GROUND TO A HEIGHT OF 5 INCHES ABOVE THE GROUND, IT IS ACCEPTABLE TO POLISH OUT GOUGES UP TO 0,020 DEEP IN THE BENT PORTION OF THE TUBE. A

RIVET

MAXIMUM REDUCTION IN DIAMETER OF 0.150" IS ACCEPTABLE IN THE BENT PORTION OF THE TUBE.

) BOND WEB INTO OUTER TUBE WITH SIKAFLEX-241/-291 ADHESIVE PER DART OSI 015

INSERT D2651-1 PLUG CAV D2651-3 O-RING IN HOLES MARKED 'P' (BOTH SIDES OF TUBE)

DRELL 20297 FOR ALS7-1032-130 INSERTS USING TEMPLATE DT0056-1 CN-1 TUBE, DT8056-3 ON-3 TUBE, DT8056-5 ON-5

TUBE, AND DT8056-7 ON -7 TUBE. INSTALL INSERTS AFTER FINISH.

I TOLERANCES ARE PER DART OSI 818 UNLESS OTHERWISE NOTED

RETURN TO **ENGINEERING** UNCONTROLLED COPY SUBJECT TO AMENDM IND WITHOUT NOTICE WORK ORDER NO. 54915 Bol 10-1-05

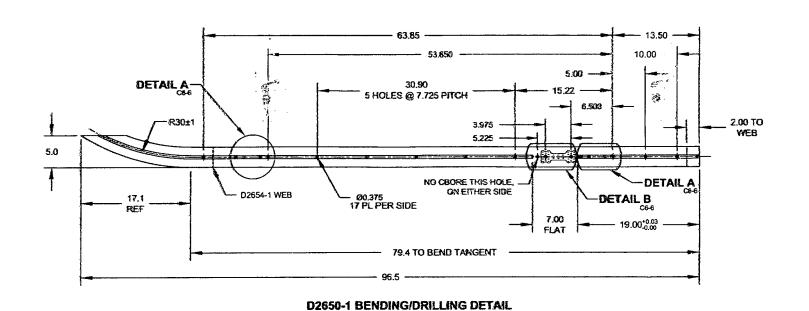
DESIGN	DS	DART AEROSPAC	E US	A. INC
REV.		DESCRIPTION	SY	DATE
A	MEW ASSILIE		DS	97.03.25
E	AS MANUFACTURED	CHANGES	DS	97.06.26
С	CHANGE HOLE PATT	ERN AND FRONT END	DS 1	97.10.29
O	REDRAW; (NCORP. D MOD GROUND HAND		CP	04.05.17
Ε	FINOVE CBORE, CHO	DRILL, ADD CHAMFER	CP	06,03,20
۶	6 ADDED, ALL SECTION TRANSFERED TO SH	TO CURRENT STANDARDS, SHT ON AND DETAIL VIEWS T6, SHT 1 IN PL PART D2649 QTY OT C-C GRIND INSTRUCTIONS E 7 (SEE MCR 239).	AJS	80.80.80

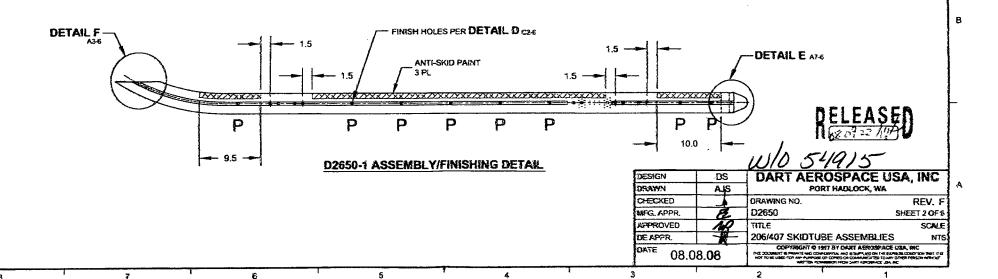
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CHECKED		DRAWING NO.	REV. F			
MFG. APPR.	B	D2650	SHEET 1 OF 6			
APPROMED	10	TITLE	SCALE			
DE APPR.	-	206/407 SKIDTUBE ASSEMBLIES	NTS			
DATE 08.0	8.08	COPPERSON & 1937 BY GREET WERESPACE. THE DOCUMENT & WERE EXAMPLED TO SERVE SHOULD THE SERVE WITH TO BE CONTROLLED FOR SERVE WERE TO SERVE WITH TO BE CONTROLLED FOR SERVE WERE TO SERVE WITH THE CONTROLLED FOR SERVE WERE WERE WERE WERE WERE WERE WERE	PERS COORDINGS FROM THE TEST STATES			

DESIGN

W/O:		WORK ORDER	WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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	-	,						
Part No		PAR #· Fault Category:	NCP: Vas	No DO	•-	Date		

	Resolution:		Dispositio	on:	QA: N/C Clos	sed:	Date:	
NCR:			WORK ORD	ER NON-CONFORMAL	NCE (NCR)			
		Description of NC		Corrective Action Section	n B	Varification		
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector
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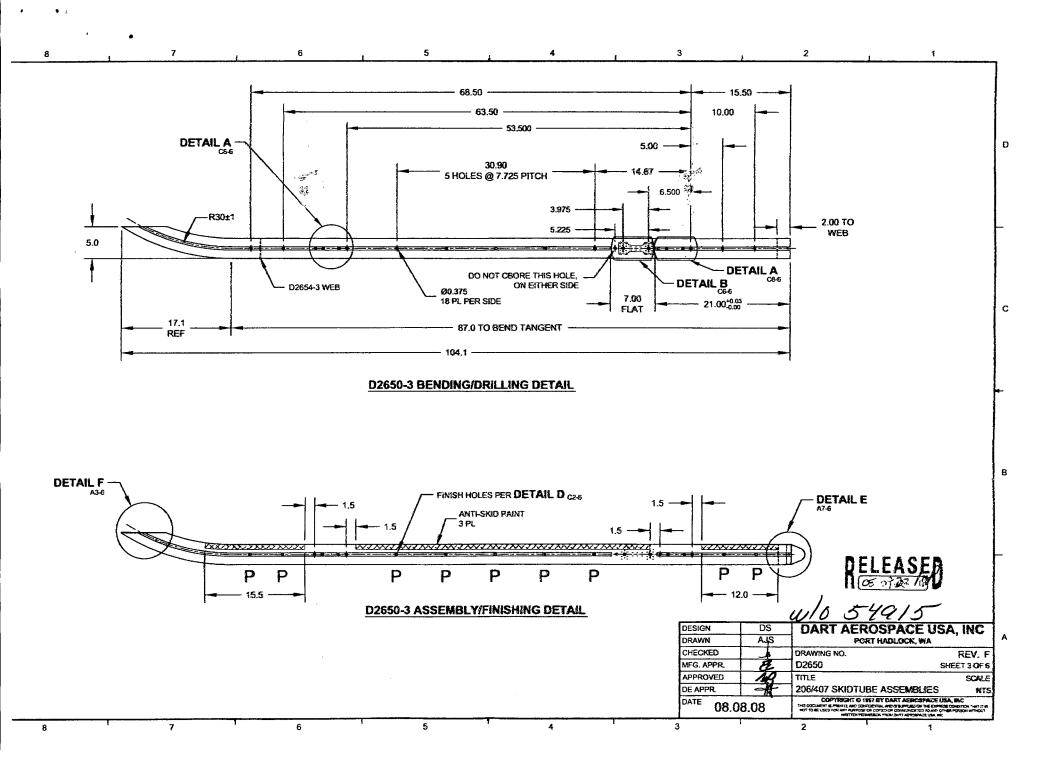




	WORK ORDER CHANGES			•					
STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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Part No:		PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
	Resolution:		Disposition:	QA: N/C Closed:	Date:

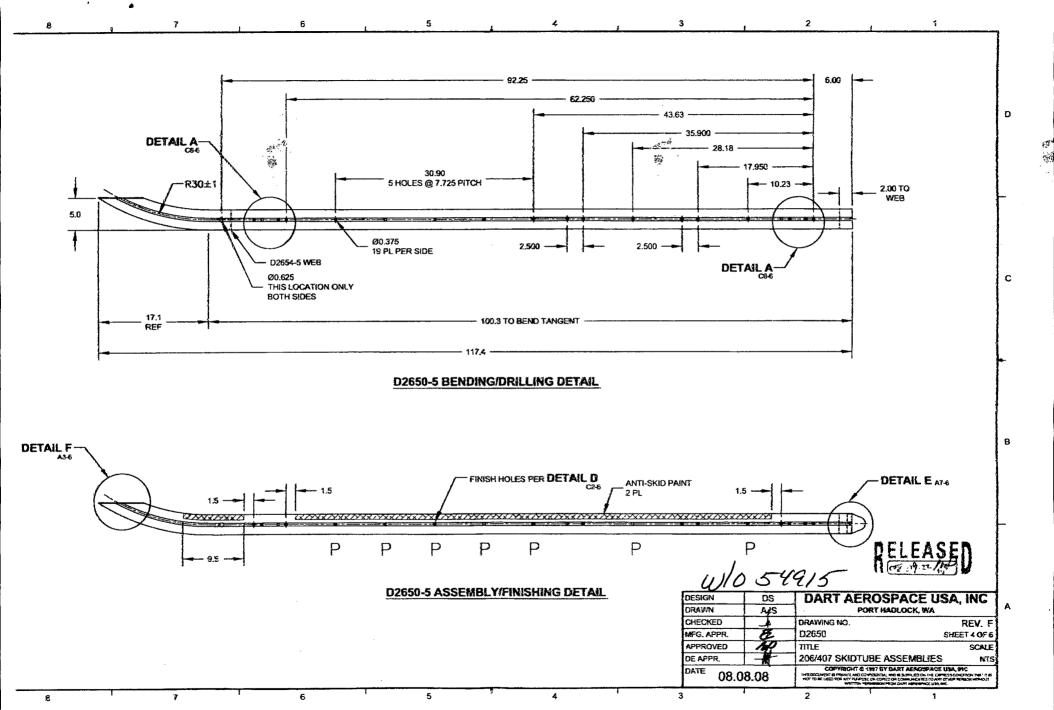
•	WORK ORDER NON-CONFORMANCE (NCR)								
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Part No:		PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:	
	Resolution:		Disposition:	QA: N/C Closed	1 -	Date:	

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC		Corrective Action Section B			Approval	Approval		
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Chief Eng	QC Inspector		
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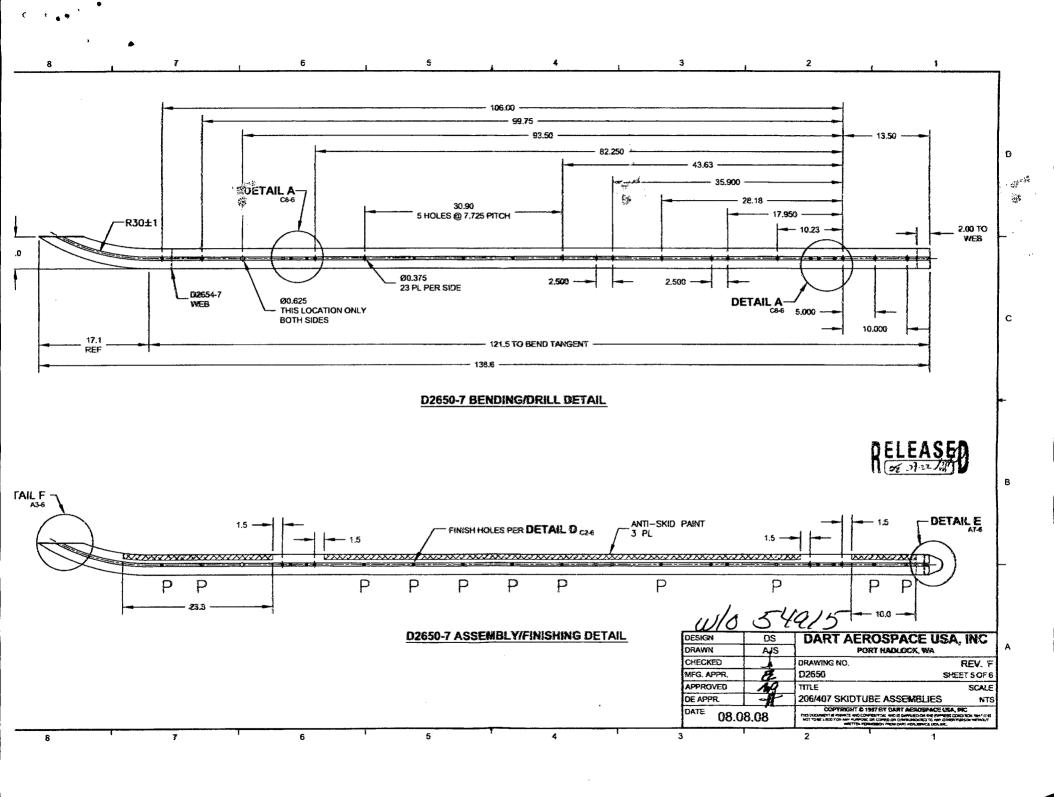


W/O:

DATE	STEP		PROC	CEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approva QC Inspector
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Part No			PAR #:	Fault Category:	NC	R: Yes	No DQ	\ :	Date: _	
	R	lesolution:		Disposition:		QA: N/C Closed:				

WORK ORDER CHANGES

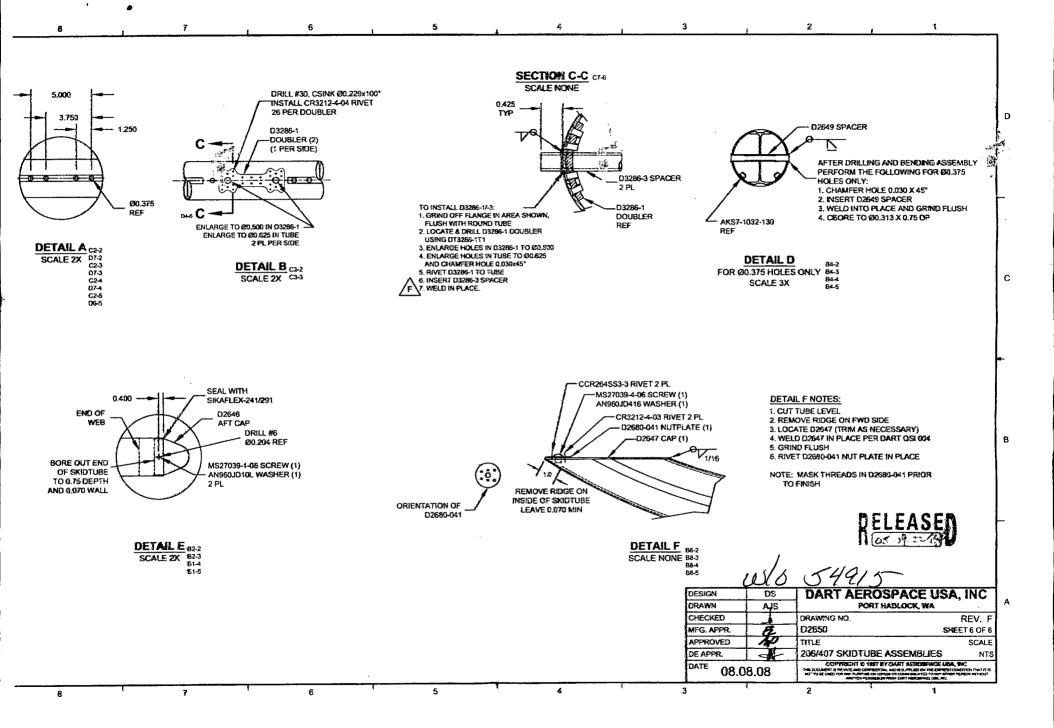
		Description of NC		Corrective Action Section 6	3	Varification	A	A
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector
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W/O:		WORK ORDER C	HANGES			4			
DATE	STEP PROCEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Part No: PAR #:		Fault Category:	NCR: Yes No DQA:	Date:	
	Resolution:		Disposition:	QA: N/C Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
DATE STEP	Description of NC		Corrective Action Section B			A				
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W/O:			WORK ORDER CHANGES							
DATE	STEP	PR	OCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
				4						
Part No	:	PAR #:	Fault Category:	NCR: Yo	es No DC	A:	Date: _			
	Resolutio	on:	Disposition:	QA: N/C	Closed:		Date: _			

	WORK ORDER NON-CONFORMANCE (NCR)								
	Description of NC	Corrective Action Section B			Varidination				
STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector		
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AWS D17.1.2001 QUALIFICATION TEST RECORD

Name: Bardon Elliott	
Job number: 5306 52867	
Part number: Dade 642.541	
Description: ack skid	
Welding Process: Tig[/] Mig[]	
Base materiel: Aluminian	
Current: AC[] DC[]	

TEST REQUIREMENTS AND RESULTS

Visual: Penetration:		fail[] fail[]
<u>UNACCEPTABLE</u>		
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[] pass[] pass[] pass[] pass[] pass[]	
Qualifier Sold Sullight		est Coupon <u>09-11-10</u>

The above named individual is qualified in accordance with AWS D17.1.2001 to weld